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An Inaugural Dissertation

Chorea <sup>on</sup> Sancti Viti

Submitted to the examination

of the  
Trustees and Medical Professors

of the  
University of Pennsylvania

for

The Degree of Doctor of Medicine

by

William Bustirk Hoar

of

Norristown Pennsylvania

admitted March 16th 1822

Dec 22d 1824

The Chancellor

of the University of Pennsylvania  
Philadelphia

Dear Sir  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the examination of the

degree of Doctor of Medicine  
and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,  
Your obedient servant,  
Wm. B. Smith

7  
To Thomas James, M.D.  
Professor of Midwifery in the University of  
Pennsylvania.

Dear Sir,

Permit me  
to inscribe this dissertation to you, as an  
acknowledgment for the public instruction  
and private favors received at your  
hands.

With sentiments of respect  
I am

Dear Sir

Your friend

W. B. Hays

James C. Jones M.D.  
of the University in the University of  
Punjab  
Dear Sir

I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the publication of the book on the subject of the Punjab.

With sentiments of respect

Yours truly  
J. C. Jones

11. 12. 1874



## Chorea Sancti Viti.

The origin of this name is somewhat curious and deserves some attention. The chapel of St Vitus, is situated near Ulm in Germany. Nitha says Herodotus, resorted a class of women disordered in mind. They spent day and night in dancing until they were completely exhausted. In this way, he informs us they were restored till the following May, when they would again be seized with restlessness and disorderly motions of the limbs, in so great a degree, as to be obliged on the return of the anniversary feast of St Vitus, to repair again to the same chapel for the purpose of dancing. From this tradition, a sort of convulsive disease to which girls are subject about the appearance of the menses, took its name. Whether either of these, was of the same nature as the one which we now designate

Cherry Church, Va.

The object of this paper is to present a  
brief history of the church, and to  
show the progress of the cause of  
Christianity in this place. The first  
settled minister was Rev. John  
C. Smith, who came here in 1790.  
He was succeeded by Rev. John  
C. Smith, who came here in 1800.  
He was succeeded by Rev. John  
C. Smith, who came here in 1810.  
He was succeeded by Rev. John  
C. Smith, who came here in 1820.  
He was succeeded by Rev. John  
C. Smith, who came here in 1830.  
He was succeeded by Rev. John  
C. Smith, who came here in 1840.  
He was succeeded by Rev. John  
C. Smith, who came here in 1850.  
He was succeeded by Rev. John  
C. Smith, who came here in 1860.  
He was succeeded by Rev. John  
C. Smith, who came here in 1870.  
He was succeeded by Rev. John  
C. Smith, who came here in 1880.  
He was succeeded by Rev. John  
C. Smith, who came here in 1890.  
He was succeeded by Rev. John  
C. Smith, who came here in 1900.

ignate by the <sup>of Chorea</sup> name is uncertain, I should rather think not; Whether or no, it is very probable, that the name of Chorea Sancti Viti has been derived from that circumstance.

By preceding writers this disease has been classed, with the Neuroses, and under spasmi.

When we consider the frequent occurrence of this affection and extreme difficulty of its cure; it is a matter of great surprise that writers have paid so little attention to it.

Chorea very seldom appears after the age of puberty, attacking boys & girls indiscriminately; generally those of a weak constitution, and those who live upon a low penurious diet. It commonly affects children between the ages of six and fourteen. Dr Hamilton saw two cases between the ages of sixteen and eighteen years. It advances in its course very slowly. The first indications



of its approach, are, a very variable appetite, loss of vivacity & playfulness, costiveness, increasing as the disease advances, a tumid and sometimes flaccid belly; In a short time convulsive motions of the muscles of the face are observed, but it does not stop here, the convulsive motion gradually increases, and extends to other muscles, involving mostly the left arm and leg, and sometimes the whole system.

The convulsions do not always appear first in the face, but show themselves in some other part. When the upper extremities become affected the sufferer is unable to keep his arms still for a moment; he makes many very curious movements before he can accomplish his object. Fibres of other muscles appear to act contrary to what he intended; thus, when he intends to flex the arm, it is extended, if the lower extremities become affected he walks with great difficulty, moving them in various directions. Sometimes he cannot move at all.



and appears to be fatigued  
all. ~~Legislation~~ becomes very difficult, and is  
awkwardly performed as if he intended to amuse  
the by-standers. Indeed all the convulsive  
movements of chorea have so much this ap-  
pearance, that a person not conversant with  
the disease might easily be deceived.

Articulation now becomes impeded or en-  
tirely suspended; instead of distinct words  
he utters loud shrieks.

Morving involved the  
whole muscular system it extends its ravages  
to the mental faculties. the eye loses its lustre,  
and intelligence, the countenance becomes  
pale and expressive of vacancy. Frequent,  
sudden, and alternate fits of weeping and  
laughing break out. These symptoms give  
the patient a fatuous appearance, and in  
time the wretched sufferer actually sinks  
into this state.

The convulsive motions con-  
tinue through the whole course of the dis-  
ease without interruption, except during  
sleep





sleep when they entirely cease. The disease may now be considered confirmed, or as having assumed the second stage, as we shall fully explain hereafter.

### Diagnosis.

The slow approach of this disease, the nature of the convulsions, expression of the countenance, state of the system, the time of its appearance, and the subjects whom it attacks, so evidently distinguish it from all others that it is unnecessary to say any more on this subject. Any person who has seen one case of chorea will ~~very~~ readily recognise it.

### Prognosis

Does this disease ever prove fatal? I will not take upon myself to decide this question. Of one of the few cases I have seen proved so; and if taken in time, and properly treated very probably it may frequently be cured. But if the first stage be suffered to pass over unmolested, and the disease become fixed in the system



we have much reason to think, that it will sometimes prove fatal. Dr Hamilton is of this opinion.

### Cause

Chorea is caused by various irritations, such as, offensive smells, teething, worms, poisons taken into the stomach, acid matter in the intestines. It sometimes arises from violent affections of the mind, as, honor, fright and anger. In many cases it is brought on by general weakness, and irritability of the nervous system; And sometimes it takes place by seeing the disease in others. These are the causes of chorea as laid down by writers. Whether they all produce the disease I will not take upon myself to decide.

### Pathology.

Dissections of those who have died of this disease have been very seldom made. On this account perhaps chorea is not so well understood as many other diseases.

the first of the series is the first of the series  
the second of the series is the second of the series  
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es. The older writers do not appear to have understood its nature. By looking over the causes we find that most of them act upon the alimentary canal; and the convulsions are always preceded by derangement of health; as indicated by loss of appetite and constipation of the bowels increasing as the disease advances, and appears to be commensurate with the violence or mildness of the attack.

The nausea, irregular appetite, flaccid or tumid abdomen, costiveness, in short all the symptoms which precede as well as accompany an attack of Chorea plainly indicate its intimate connection with the alimentary canal. Professor Chapman has fully established this theory in the first volume of his Therapeutics; discourse tenth; Dr Hamilton also has given a very elaborate description of this disease confirming ~~many~~ Dr Chapman's opinion of many of the nervous affections.

Professor Cope has given it as his opinion that this disease depends upon a partial collection of water in the ventricles of  
the

The first object of the present  
treatise is to show that the  
principles of the human mind  
are not innate, but are  
acquired from experience.  
The second object is to show  
that the human mind is  
not a tabula rasa, but  
is filled with ideas from  
birth. The third object is  
to show that the human  
mind is not a passive  
receptacle, but is an active  
agent. The fourth object is  
to show that the human  
mind is not a single  
entity, but is composed of  
many parts. The fifth object  
is to show that the human  
mind is not a fixed  
entity, but is capable of  
growth and improvement.



the brain. (see Cope's Medical Museum) He brings forth  
strong proofs in support of his opinion, the case of  
John Magnuss is very conclusive. After the appear-  
ance of the Dr's paper many communications were  
sent in confirming his theory. If water does some-  
times exist in the ventricles, may it not be caused by  
parvian derangement of the alimentary canal?  
May not the protracted and stubborn cases of Chorea  
be kept up by this collection of water in the brain.

*[Faint, illegible handwriting visible through the paper, likely from the reverse side.]*

## REASONS

Chorea, as has already been mention-  
ed may be divided into <sup>two</sup> stages, incipient and confirmed.  
When called in the early part of this disease, nausea  
is very evident. We ought to examine whether any ir-  
ritating cause exists, lance the gums if swollen; if  
any symptoms of worms give anthelmintics. In this  
incipient state of things we generally find a very  
inflammatory diathesis to prevail, furred tongue &c.  
&c. in such a case I would not hesitate to bleed. Repeat-  
edly until the inflammatory symptoms were suffi-  
ciently reduced. As we have already said, Costive-  
ness is always a symptom of this disease, purga-  
tives are therefore doubly necessary. The active cath-  
artics ought to be administered, and the purging  
kept up by frequently repeating them, as long as  
the inflammatory symptoms appear, and then  
the milder laxatives may be substituted, merely  
to keep the bowels sufficiently open. It ought to  
be particularly recollected, that, if we suffer the  
intestines to fall into that torpid state, which so  
conspicuously characterises the more advanced  
stage



stage of the disease, all the symptoms are aggravated. If we neglect this precaution it becomes confirmed and fixed in the system, and the cure is thereby rendered more difficult and tedious.

After sufficient evacuations, we may venture to give tonics to confirm the cure, not forgetting to keep the bowels well opened. Most of the class of tonics have been prescribed, as Peruvian Bark; preparations of Iron, Camphor, Sulphuric Ether, Nacrian, preparations of Zinc and Copper, Nitrate of Silver, and many others. I prefer the two first, *peruvian bark* and carbonate of Iron combined. I think I have given an antispasmodic with advantage. As long as the inflammatory symptoms remain, the patient ought to live upon a low diet, but when these are subdued a more generous one may be allowed. The patient must continue his medicines until he is perfectly well. In this way we can frequently cure the disease; but if we suffer it to run on unsettled either from negligence or erroneous practice





tice, the state of things is materially changed.

- The disease becomes confirmed and permanently fixed in the system. It may now be said to be advanced to the second stage. All the preceding symptoms are aggravated, pulse feeble, extremities cold and bowels very costive. If we consider the extreme costiveness which always accompanies this stage of the disease, it is very natural to suppose that the bowels are loaded with a great quantity of indurated feces; these must be evacuated before we can expect a cure, ~~which~~ sometimes require ~~these~~ powerful medicines. The proper cathartics are Jalap and Calomel; If the first dose does not succeed, we must repeat it at proper intervals, until the alimentary canal is completely evacuated; After this we may give a less powerful purge every morning for several days, which paves the way for the proper reception of tonics. The same kind of tonics are proper here, as in the first stage of the disease. We must not lay aside the cathartics when we commence giving tonics. By this treatment we may frequently expect a  
Cure





care.

But we must expect to meet with disappoint-  
ments, <sup>without interruption</sup> The disease goes on for a number of years and  
at last proves fatal.

